

United States Patent [19]

Perino et al.

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[54] CONNECTOR WITH INTEGRAL TRANSMISSION LINE BUS

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[52] U.S. Cl. 439/631; 361/775; 174/72 B

[58] Field of Search 439/61, 631; 361/785, 361/775, 788; 172/71 B, 72 B, 88 B

[56]

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[57] ABSTRACT

A socket (14) includes a first bus conductor (22a) having two or more contact regions (24) and a second bus conductor (22b) arranged substantially parallel to the first bus conductor and having two or more contact regions (24). The first and second bus conductors are spaced relative to one another so as to provide a predetermined electrical impedance and may be arranged to carry electrical signals as transmission lines. A dielectric spacer (36) may be disposed between the first and second bus conductors to provide the spacing. Contact regions (24) of the first and second conductors (22a, 22b) may provide compliant coupling regions for the socket (14). The contact regions (24) of the first bus conductor (22a) may be positioned within the socket (14) so as to contact a lead disposed on a first side of a circuit element (16) and the contact regions (24) of the second bus conductor (22b) may be positioned within the socket (14) so as to contact the lead disposed on the second side of the circuit element (16).

17 Claims, 11 Drawing Sheets

